#6

SEQUENCE LISTING

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<120> Novel Vector Constructs

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<151> 2001-02-23

<160> 8

<170> PatentIn version 3.1

<210> 1
<211> 140
<212> DNA
<213> Simian virus 40

<220>
<221> misc_feature
<222> (1)..(140)
<223> Fig. 1 A

<400> 1
cttatcgata ccgtcgaaac ttgtttattg cagcttataa tggttacaaa taaagcaaca 60
caaatttcac aaataaagca ttttttttcac tgcattctag ttgtggtttg tccaaactca 120
tcaatgtatc ttatcatgtc 140

<210> 2
<211> 600
<212> DNA
<213> Human adenovirus type 5

<220>
<221> misc_feature
<222> (1)..(600)
<223> Fig. 2 - E1A transcription control region

<400> 2
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180
gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240
taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300
agtgaaatct gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg 360
gactttgacc gtttacgtgg agactcgccc aggtgttttt ctcaggtgtt ttccgcgttc 420
cgggtcaaag ttggcgtttt attattatag tcagctgacg tgtagtgtat ttatacccgg 480

tgagttcctc aagaggccac tcttgagtgc cagcgagtag agttttctcc tccgagccgc 540
tccgacaccg ggactgaaaa tgagacatat tatctgccac ggaggtgtta ttaccgaaga 600

<210> 3
<211> 1802
<212> DNA
<213> Artificial Sequence

<220>
<223> viral vector construct

<220>
<221> misc_feature
<222> (1)..(1802)
<223> Fig. 3 A - left end of Ar6pAE2fF sequence

<400> 3
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcga tcaagcttat 120
cgataccgtc gaaacttgtt tattgcagct tataatggtt acaaataaag caatagcatc 180
acaaatttca caaataaagc attttttttca ctgcattcta gttgtggttt gtccaaactc 240
atcaatgtat cttatcatgt ctggatccgc gccgctagcg atcatccgga caaagcctgc 300
gcgcgccccg ccccgccatt ggccgtaccg ccccgcgccg ccgccccatc tcgcccctcg 360
ccgccgggtc cggcgcgtta aagccaatag gaaccgccgc cgttgttccc gtcacggccg 420
gggcagccaa ttgtggcggc gctcggcggc tcgtggctct ttcgcggcaa aaaggatttg 480
gcgcgtaaaa gtggccggga ctttgcaggc agcggcggcc gggggcggag cgggatcgag 540
ccctcgatga tatcagatca tcggatcccg gtcgactgaa aatgagacat attatctgcc 600
acggaggtgt tattaccgaa gaaatggccg ccagtctttt ggaccagctg atcgaagagg 660
tactggctga taatcttcca cctcctagcc attttgaacc acctaccctt cacgaactgt 720
atgatttaga cgtgacggcc cccgaagatc ccaacgagga ggcggtttcg cagatttttc 780
ccgactctgt aatgttggcg gtgcaggaag ggattgactt actcactttt ccgccggcgc 840
ccggttctcc ggagccgcct caccttcccc ggcagcccga gcagccggag cagagagcct 900
tgggtccggt ttctatgcca aaccttgtac cggaggtgat cgatcttacc tgccacgagg 960
ctggctttcc acccagtgac gacgaggatg aagagggtga ggagtttgtg ttagattatg 1020
tggagcaccc cgggcacggt tgcaggtctt gtcattatca ccggaggaat acgggggacc 1080
cagatattat gtgttcgctt tgctatatga ggacctgtgg catgtttgtc tacagtaagt 1140
gaaaattatg ggcagtgggt gatagagtgg tgggtttggt gtggtaattt ttttttaat 1200
ttttacagtt ttgtggttta aagaattttg tattgtgatt tttttaaaag gtcctgtgtc 1260
tgaacctgag cctgagcccg agccagaacc ggagcctgca agacctaccc gccgtcctaa 1320
aatggcgcct gctatcctga gacgcccgac atcacctgtg tctagagaat gcaatagtag 1380
tacggatagc tgtgactccg gtccttctaa cacacctcct gagatacacc cggtggtccc 1440
gctgtgcccc attaaaccag ttgccgtgag agttggtggg cgtcgccagg ctgtggaatg 1500
tatcgaggac ttgcttaacg agcctgggca acctttggac ttgagctgta aacgccccag 1560
gccataaggt gtaaacctgt gattgcgtgt gtggttaacg cctttgtttg ctgaatgagt 1620
tgatgtaagt ttaataaagg gtgagataat gtttaacttg catggcgtgt taaatggggc 1680
ggggcttaaa gggtatataa tgcgccgtgg gctaatcttg gttacatctg acctcatgga 1740
ggcttgggag tgtttggaag atttttctgc tgtgcgtaac ttgctggaac agagctctaa 1800
ca 1802

<210> 4
<211> 532
<212> DNA
<213> Artificial Sequence

<220>
<223> viral vector construct

<220>
<221> misc_feature
<222> (1)..(532)
<223> Fig. 3 B - right end of Ar6pAE2fF sequence

<400> 4
aacctacgcc cagaaacgaa agccaaaaaa cccacaactt cctcaaatcg tcacttccgt 60
tttcccacgt tacgtcactt cccattttaa ttaagaattc tacaattccc aacacataca 120
agttactccg ccctaaaacc ctgggcgagt ctccacgtaa acggtcaaag tccccgcggc 180
cctagacaaa tattacgcgc tatgagtaac acaaaattat tcagatttca cttcctctta 240
ttcagttttc ccgcgaaaat ggccaaatct tactcggtta cgcccaaatt tactacaaca 300
tccgcctaaa accgcgcgaa aattgtcact tcctgtgtac accggcgcac accaaaaacg 360
tcacttttgc cacatccgtc gcttacatgt gttccgccac acttgcaaca tcacacttcc 420
gccacactac tacgtcaccc gccccgttcc cacgccccgc gccacgtcac aaactccacc 480
ccctcattat catattggct tcaatccaaa ataaggtata ttattgatga tg 532

<210> 5
<211> 660
<212> DNA
<213> Artificial Sequence

<220>
<223> viral vector construct

<220>
<221> misc_feature
<222> (1)..(660)
<223> Fig. 4 - left end of Ar6F sequence

<400> 5
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcgc cgctagcgat 120
atcggatccc ggtcgactga aaatgagaca tattatctgc cacggaggtg ttattaccga 180
agaaatggcc gccagtcttt tggaccagct gatcgaagag gtactggctg ataatcttcc 240
acctcctagc cattttgaac cacctaccct tcacgaactg tatgatttag acgtgacggc 300
ccccgaagat cccaacgagg aggcggtttc gcagattttt cccgactctg taatgttggc 360
ggtgcaggaa gggattgact tactcacttt tccgccggcg cccggttctc cggagccgcc 420
tcacctttcc cggcagcccg agcagccgga gcagagagcc ttgggtccgg tttctatgcc 480
aaaccttgta ccggaggtga tcgatcttac ctgccacgag gctggctttc cacccagtga 540
cgacgaggat gaagagggtg aggagtttgt gttagattat gtggagcacc ccgggcacgg 600
ttgcaggtct tgtcattatc accggaggaa tacgggggac ccagatatta tgtgttcgct 660

<210> 6
<211> 660
<212> DNA
<213> Artificial Sequence

<220>
<223> viral vector construct

<220>
<221> misc_feature
<222> (1)..(660)
<223> Fig. 5 - left end of Ar6pAF sequence

<400> 6
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcga tcaagcttat 120
cgataccgtc gaaacttgtt tattgcagct tataatggtt acaaataaag caatagcatc 180
acaaatttca caaataaagc attttttttca ctgcattcta gttgtggttt gtccaaactc 240
atcaatgtat cttatcatgt ctggatccgc gccgctagcg atatcggatc ccggtcgact 300
gaaaatgaga catattatct gccacggagg tgttattacc gaagaaatgg ccgccagtct 360
tttggaccag ctgatcgaag aggtactggc tgataatctt ccacctccta gccattttga 420
accacctacc cttcacgaac tgtatgattt agacgtgacg gcccccgaag atcccaacga 480
ggaggcggtt tcgcagattt ttcccgactc tgtaatgttg gcggtgcagg aagggattga 540
cttactcact tttccgccgg cgcccggttc tccggagccg cctcaccttt cccggcagcc 600
cgagcagccg gagcagagag ccttgggtcc ggtttctatg ccaaaccttg taccggaggt 660

<210> 7
<211> 11
<212> DNA
<213> Human adenovirus type 5

<220>
<221> misc_feature
<222> (1)..(11)
<223> 11 bp repeat element in the E1a enhancer

<400> 7
aggaagtgac a 11

<210> 8
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Viral vector sequence

<220>
<221> misc_feature
<222> (1)..(24)
<223> Fig. 1C. SV40 early Poly(A) site

<220>
<221> polyA_site
<222> (3)..(24)
<223>

<400> 8
gcaaaaaaaa aaaaaaaaaa aaaa 24